

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,717	12/31/2003	Riccardo Comini	Wdhd 240	9219
7590 12/06/2004			EXAMINER	
James J. Hill, Esq.			, HYEON, HAE M	
Ste. 3000 300 South Wacker Drive			ART UNIT	PAPER NUMBER
• • • • • • • • • • • • • • • • • • • •	Chicago, IL 60606			
			DATE MAILED: 12/06/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A				
	Application No.	Applicant(s)				
	10/749,717	COMINI, RICCARDO				
Office Action Summary	Examiner	Art Unit				
	Hae M Hyeon	2839				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with th	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.12 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS fi , cause the application to become ABANDC	e timely filed  days will be considered timely.  rom the mailing date of this communication.  NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 M	lay 2004.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for alloward	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-13 is/are pending in the application	Claim(s) <u>1-13</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-6,8,10 and 12</u> is/are rejected.						
7)⊠ Claim(s) <u>7,9,11 and 13</u> is/are objected to. 8)☐ Claim(s) are subject to restriction and/o	ar election requirement					
,—	r election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on <u>31 December 2003</u> is/a						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
11) The dath of declaration is objected to by the E	kammer. Note the attached On	ice Action of form 1 10-102.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) ☐ Acknowledgment is made of a claim for foreign</li> <li>a) ☐ All b) ☐ Some * c) ☐ None of:</li> <li>1. ☐ Certified copies of the priority document</li> </ul>		9(a)-(d) or (f).				
2. Certified copies of the priority document		cation No				
3. Copies of the certified copies of the prior						
application from the International Burea		Ÿ				
* See the attached detailed Office action for a list		eived.				
Attachment(s)	<b></b>	(DTO 440)				
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Ma					
3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>2/9/04</u> .		al Patent Application (PTO-152)				

Art Unit: 2839

### **DETAILED ACTION**

## **Drawings**

- The drawings are objected to because the reference number 10 is pointing both cable and 1. contact holder in Figure 1A. Also, "a conventional printed circuit board 87" described on page 11, line 14 is not shown in the drawing. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: A slot 74 described on page 10, line 6. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the

Art Unit: 2839

sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "87" has been used to designate both conventional printed circuit board and peripheral gasket. Also, the reference number "25" has been used to designate both stop and far wall of the band.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Specification

4. The disclosure is objected to because of the following informalities:

Application/Control Number: 10/749,717

- Page 4, line 15 recites, "A conventional casing 42," but page 9, line 5 recites, "The
  housing 42." The terminology for the same element should be consistent through out the
  present specification.
- Page 5, line 7 recites, "A gasket 87," but page 11, line 17 recites, "A peripheral gasket
   87."
- Page 6, line 12 recites, "a blade contact 28," but line 21 recites, "metal contact 28" and page 7, lines 9-10 recites, "the fixed blade contact 28."
- Page 8, line 11 recites, "retainer member 9." It seems that it should be -- retainer member 92 --.
- Page 8, lines 20-21 recites, "An annular flexible gasket 50," but page 12, line 21 recites,
   "the grommet 50."
- Page 9, line 11 recites, "a flat peripheral portion 59," but page 11, line 14 recites, "the lid
   59."
- Page 9, line 19 recites, "a flat central engagement portion 64," but line 20 recites, "the central portion 64" and page 11, line 3-4 recites, "central engagement portion 64" and line 10 recites, "The portion 64."
- Page 9, line 21 recites, "contact areas or pads 69, 70," but page 10, line 1 recites, "The contact portions 69, 70" and line 5 recites, "the pads 69, 70."
- Page 10, line 1 recites, "an enlarged opening 71," but line 3 recites, "the enlarged slot
   71."
- The last paragraph on page 10 describes "the contact holder 43" in line 17 and "the contact holder 18" in line 18. It is not clear whether this paragraph is describing the first

Art Unit: 2839

embodiment with the contact holder 18 or the second embodiment with the contact holder 43.

- Page 12, line 18, the examiner suggests the applicant to insert -- gasket -- in front of "retainer 92."
- The terminology for the same element should be consistent through out the present specification.
- The specification has not been checked to the extent necessary to determine the presence
  of all possible minor errors. Applicant's cooperation is requested in correcting any errors
  of which applicant may become aware in the specification.

Appropriate correction is required.

# Claim Objections

- 5. Claims 1-13 are objected to because of the following informalities:
  - Claim 1, line 16-17, "a mating connector" should be -- said mating connector -- since the mating connector is introduce in line 13.
  - Claim 1 recites the limitation "said central opening" in line 18. There is insufficient antecedent basis for this limitation in the claim.
  - Claim 2, lines 3-4, "a connector element of a mating connector" should be -- said connector element of said mating connector -- since the connector element of the mating connector is introduce in claim 1, lines 16-17.
  - Claim 4, line 2, it seems that "a receptacle" should be -- said receptacles --.
  - Claim 11, line 2, "a cable" should be -- said cable --.

Art Unit: 2839

• The examiner suggests the applicant to change "band" recited in claims 1-13 to --

conductive band --.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

7. Claims 8, 9 and 13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 8 and 13 recite, "a **body** supporting said mating connector." It is not clear what is this "body" since the present specification does not describe the body supporting the mating connector clearly. Also, the present specification does not describe "a base" of the pedestal recited in claim 9.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Art Unit: 2839

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 1-6, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Wittes (4,213,667).

Wittes discloses an electrical connector comprising a casing 13 including an intake for receiving a cable C having a plurality of wires E, a contact holder 86 for each of the wires E and including a receptacle 96, a connector assembly including a conductive band 104, a threaded member 120 and a contact element 122. The connector assembly is seated in each of the receptacles 96. Each connector assembly comprises the conductive band 104 having four walls 106 defining an opening (see Fig. 9) to receive an associated wires and first and second opposing portion. The first portion has an internally threaded aperture 118 (see Fig. 9) for receiving the threaded member 120. The contact element 122 comprises a generally flat metal member having first and second depending legs 122a with a pad (see Female Connector 11 in Fig. 1) spaced apart to receive in electrical contacting relation with a connector element of a mating connector. The contact element 122 also includes a barbed section for engaging opposite walls 100 of the receptacle 96 of the contact holder 12 and first and second outwardly extending tabs 125 for engaging shoulder portions of the receptacle 96 of the contact holder 12 (see Fig. 2). A wire E is placed in the opening of the conductive band 104 between the second portion of the conductive band 104 and the contact element 122. The threaded member 120 is tightened to force the contact element 122 against the inserted wire E to establish electrical continuity between a wire E of the cable C and an associated contact element 122 of the connector.

Application/Control Number: 10/749,717

Art Unit: 2839

# Claim Rejections - 35 USC § 103

Page 8

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

11. Claims 10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wittes.

While Wittes does not disclose means for sealing the cable to the intake as recited in claim 10 and four individual conductive bands arranged in quadrature about the contact holder

86 as recited in claim 12, it would have been obvious at the time the invention was made to a

person having ordinary skill in the art to modify the connector taught by Wittes to provide a

sealing means because the seal means is common knowledge and to provide four conductive

bands because it only deals with a duplication of part.

### Allowable Subject Matter

12. Claims 7, 9, 11 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

A . II ! . 0000

Art Unit: 2839

US Patent No. 4,460,235 by Gelin, US Patent No. 5,664,971 by Coy, US Patent No. 6,312,296 by Jones, US Patent No. 6,315,615 B1 by Raistrick, and US Patent No. 6,764,355 B2 by Ude et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hae M Hyeon whose telephone number is 571-272-2093. The examiner can normally be reached on Mon.-Fri. (8:30-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tulsidas C Patel can be reached on (571) 272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hae M Hyeon Primary Examiner Art Unit 2839

Hae Moon Hyeon

Page 9

hmh hmh